

Bell Work

13-Aug-2013

Where/ what part of our lab
do you think the most
dangerous area?

Why?



Lab Safety

Flowing Wells Chemistry Lab Safety



A black and white cartoon illustration of a busy, chaotic science laboratory. In the top left, Sue is blowing a lamp, while John is eating popcorn. A "No Smoking" sign is on the wall. Jim is holding a flask. In the top right, a person is using a microscope. In the middle left, Tim is lying on a bench, and Ray is nearby. In the middle right, Betty is talking on a phone, and Luke is holding a book. In the bottom left, Bob is holding a flask and shouting "Ouch!". In the bottom right, Carl is working with a flask, and Tina is holding a flask. Various lab equipment like flasks, beakers, and a "SAFETY BLANKET" are visible.

Why is Lab Safety Important?

Lab safety is a major aspect of every lab based science class.

Lab safety rules and symbols are needed so that students do not injure themselves or their classmates.

Lab Safety Rules

1. Always follow the teacher's directions & only do lab work when a teacher is present.
2. Conduct yourself in a responsible manner at all times. No Horseplay!
3. Only touch equipment, chemicals, or other materials that you are told to.



Lab Safety Rules

4. Never eat food, drink beverages, or chew gum in the lab. Never use lab glassware as food or beverage containers
5. Report ALL accidents to your teacher immediately, even if you think it is minor.



Lab Safety Rules cont.

6. If you break any glass ware clean up broken pieces with dust pan and broom.
7. Should you spill any chemicals on the ground on table clean them up immediately with paper towels and notify teacher and those around you.
8. If you get any liquid chemicals on hand wash immediately with soap and water for 10 minutes



Clothing

Wear:

- Goggles/safety glasses
- Closed-toed shoes
- Clothing made of natural based fiber such as cotton
- Tie back long hair



Clothing

Do NOT Wear:

- Sandals
- Jewelry
- Loose or Baggy clothing
- Clothes show to much skin



Lab Safety Equipment

Safety Shower



Eye Wash



Safety Glasses



Lab Safety Equipment

Fire

Extinguisher

Fire Blanket

Fume Hood



In The Lab

We are going to go in the lab now and you will be practicing “lab safety” skills. Make sure to note what we are doing and the location of various lab safety devises while in the lab.

Other Chemical Hazards and Symbols

Flammable



Irritant



Explosive



Corrosive



Toxic/Poison



Environmental



Chemical Hazard Symbols and Definitions



Flammable – Any substance that will burn if exposed to an open flame.



Explosive – A substance that may explode if exposed to heat or flame.

Chemical Hazard Symbols and Definitions



Toxic/Poison – A substance that can lead to death if inhaled, ingested, or absorbed by the skin.



Corrosive – A substance that can destroy or burn living tissue and can eat away at other materials.

Chemical Hazard Symbols and Definitions



Irritant - A substance that causes inflammation upon contact with skin or mucous membranes.



Environmental - Substances that are harmful to the environment. They must be disposed of properly, not washed down the drain.

Closure

What do we always correctly wear while in the lab?